PATENT COOPERATION TREATY

PCT

	REC'D	25	AUG	2004
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

Applicants	s or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
		International filing date (day/mont/ 14.08.2003	Priority date (day/month/year) 30.08.2002
Internation C08F6/0	· ·	both national classification and IPC	
Applicant BP CHE	MICALS LIMITED et al.		·
1. This	s international preliminary ex hority and is transmitted to th	amination report has been prepare te applicant according to Article 36	ed by this International Preliminary Examining
2. This	s REPORT consists of a tota	of 4 sheets, including this covers	sheet.
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).		
The	se annexes consist of a tota	of sheets.	
3. This	_	relating to the following items:	
i i	☐ Basis of the opinion☐ Priority		•
in .		f opinion with regard to novelty in	ventive step and industrial applicability
IV	☐ Lack of unity of inver		control step and industrial applicability
V	☒ Reasoned statement		to novelty, inventive step or industrial applicability;
Vi	☐ Certain documents c	ited	
VII		international application	
VIII	☐ Certain observations	on the international application	
Date of sub	omission of the demand	Date of c	ompletion of this report
12.03.2004 24.08.2004		004	
Name and preliminary	mailing address of the internation examining authority:	nal Authorize	d Officer
European Patent Office D-80298 Munich No. 2005 - The Second Secon			
ارو	Tel. +49 89 2399 - 0 Tx: 523 Fax: +49 89 2399 - 4465	556 epmu a	e No. +49 89 2399-8525

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/03583

l. Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages	
	1-2	22	as originally filed
	Ci	aims, Numbers	
	1-	16	as originally filed
	Dr	awings, Sheets	
	1/5	-5/5	as originally filed
2.	. Wi lan	th regard to the lang guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	Th	ese elements were a	vailable or furnished to this Authority in the following language: . , which is:
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of put	plication of the international application (under Rule 48.3(b)).
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of interpotional available.
3.	Wit inte	h regard to any nucl rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	ernational application in written form.
		filed together with the	ne international application in computer readable form.
		furnished subseque	ntly to this Authority in written form.
			ntly to this Authority in computer readable form.
		The statement that to in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:



International application No.

PCT/GB 03/03583

	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims
1-16

No: Claims

Inventive step (IS)

Yes: Claims
1-16

No: Claims

Industrial applicability (IA) Yes: Claims 1-16

No: Claims

2. Citations and explanations

see separate sheet

ad item V.:

None of the documents cited in the international search report discloses or fairly suggests a process for stripping residual volatile compounds contained in a thermoplastic polymer or an apparatus for carrying out said process as claimed in the present application.

In particular, D1 (EP-A-1 084 739) does not disclose a spray device at the end of the addition line introducing the foaming agent. Furthermore, it is one of the characteristic features of the apparatus according to D1 that the static mixer opens directly into the expansion chamber.

D2 (EP-A-905 149) discloses a process wherein the foaming agent is added to the polymer melt by way of an addition nozzle apparatus in a direction opposite to the flow of the polymer melt. It is explicitly stressed that addition of the foaming agent in the same direction as the polymer melt flow is disadvantageous.

A spraying device at the end of the feed line for the foaming agent is neither mentioned nor suggested.

The presently claimed process has been shown to allow for an effective reduction of volatile residual compounds.

The subject matter of claims 1 - 16 of the present application has accordingly been found to fulfil the requirements of Article 33(2) - (4) PCT.